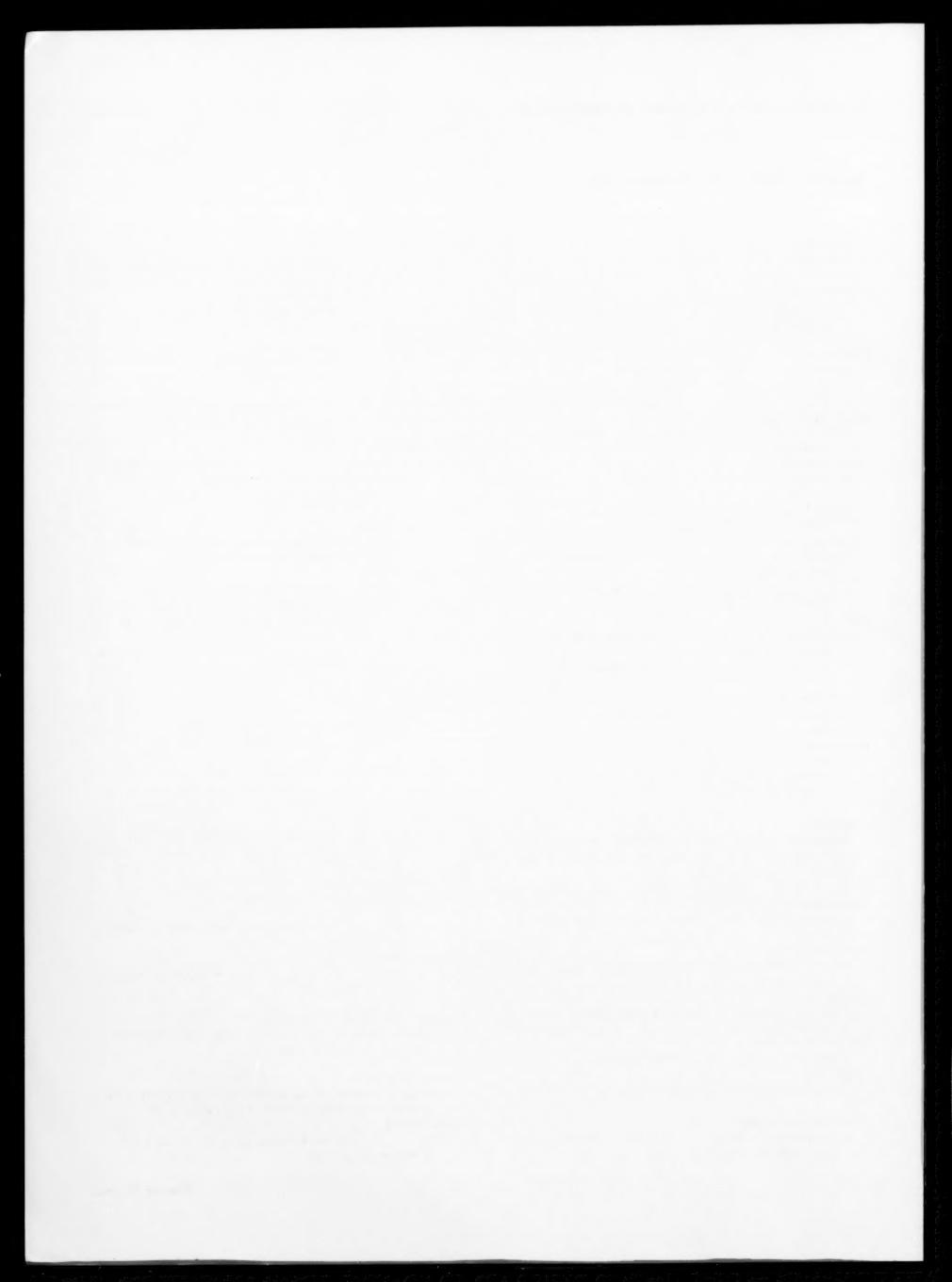
Author Index of Volume 48

Accary, A., 41 Asaadi, M., 11	Keiski, R. L., 17	Prasad, D. H. L., 211 Pudjiono, P. I., 101
Ash, S. N., 183 Atiqullah, M., 71	Łacki, H., 135 Laguerie, C., 119	Ralph, S. J., 197
Beg, S. A., 71 Biscans, B., 119 Bossy, A., 173	Lakshmi, D. S., 211 Lédé, J., 83 Li, H. Z., 83 Lieto, J., 41	Rosal, R., 191 Sakai, K., B1 Salmi, T., 17
Cabo, F., 191 Cantero, D., B15 Caro, I., B15 Crine, M., 49, 61 Díez, F., 191	Mankad, T., B9 Marchot, P., 49, 61 Masuik, S., 135 Mather, A. E., 31	Sastre, H., 191 Schotte, W., 167 Soulignac, F., 83 Spedding, P. L., 1, 197 Strek, F., 135
Frances, C., 119 Garside, J., 101 Gharat, S. D., 141, 153	Nauman, E. B., B9 Nigam, K. D. P., 101	Tavare, N. S., 101 Tondeur, D., 173 Tsuda, S., B1
Hand, N. P., 197 O'Hare, K. D., 1 Hassan, M. M., 71 L'Homme, G. A., 49, 61	Ogasawara, KI., B1 Oliver, D. R., 129 Otto, F. D., 31 Ozawa, K., B1	Vetere, A., 111 Villermaux, J., 83 Wang, Y. W., 31 Webb, C., B15
Jallut, C., 41 Jedrzejak, A., 173 Joshi, J. B., 141, 153	Pérez, L., B15 Pohjola, V. J., 17 Poizat, T., 41	White, D. A., 11 Xu, S., 31



Subject Index of Volume 48

Alkanolamines

solubility of N₂O in alkanolamines and in mixed solvents,

Anthracene oil

hydrogen incorporation during the hydrogenation reaction of an anthracene oil, 191

Backmixing

influence of the gel effect and backmixing on the dynamics and rate parameters of bulk copolymerization in a tubular reactor – theoretical analysis, 71

Batch alcohol fermentation

modelling of ethanol evaporative losses during batch alcohol fermentation, B15

Binary liquid mixtures

evaporation of a binary liquid mixture, 1

Binary parameters

group unary Wilson model for liquid mixtures without arbitrary parameters, 183

Bubble column reactors

transport phenomena in bubble column reactors flow pattern, 141

transport phenomena in bubble column reactors pressure drop, 153

Bulk copolymerization

influence of the gel effect and backmixing on the dynamics and rate parameters of bulk copolymerization in a tubular reactor — theoretical analysis, 71

Couette flow device

residence time distribution from a continuous Couette flow device, 101

Cyclone reactor

cyclone reactor

measure of the efficiency of heat transfer between walls in gas and solid phases, 83

Dissolution

determination of the kinetics of growth and dissolution of tetrahydrate sodium perborate in a fluidized bed, 119

Environmental limitation

modeling of microbial growth under dual limitations, B9

Equations of state

semi-empirical equation of state applied to vapor-liquid equilibria calculations, 111

Ethanol evaporative losses

modelling of ethanol evaporative losses during batch alcohol fermentation, B15

Ethanol-water system

evaporation of a binary liquid mixture, 1

Evaporation

evaporation of a binary liquid mixture, 1

Fixed-bed test reactor

development and verification of a simulation model for a non-isothermal water gas shift reactor, 17 Flow pattern

the effect of surface tension on flow pattern, holdup and pressure drop during horizontal air-water pipe flow at atmospheric conditions, 197

transport phenomena in bubble column reactors flow pattern, 141

Fluidized beds

determination of the kinetics of growth and dissolution of tetrahydrate sodium perborate in a fluidized bed, 119

Flux decay

protein adsorption on microporous membranes for plasma separation and its effects on flux decay, B1

Gas bubbles

novel experimental technique for measurement of mass transfer between liquids and gas bubbles in agitated vessels: application to highly viscous liquids, 41

Gas phase

cyclone reactor

measure of the efficiency of heat transfer between walls in gas and solid phases, 83

Gel effect

influence of the gel effect and backmixing on the dynamics and rate parameters of bulk copolymerization in a tubular reactor — theoretical analysis, 71

Growth

determination of the kinetics of growth and dissolution of tetrahydrate sodium perborate in a fluidized bed, 119

Heat transfer

cyclone reactor

measure of the efficiency of heat transfer between walls in gas and solid phases, 83

Holdup

effect of surface tension on flow pattern, holdup and pressure drop during horizontal air-water pipe flow at atmospheric conditions, 197

Horizontal air-water flow

effect of surface tension on flow pattern, holdup and pressure drop during horizontal air-water pipe flow at atmospheric conditions, 197

Horizontal stretching

horizontal stretching of test liquid A1, 129

Hydrogen

hydrogen incorporation during the hydrogenation reaction of an anthracene oil, 191

Hydrogenation reaction

hydrogen incorporation during the hydrogenation reaction of an anthracene oil, 191

Inorganic microfiltration membranes

model for determining the steady state flux of inorganic microfiltration membranes, 11

Liquid distribution

rational description of trickle flow through packed beds Liquid distribution far from the distributer, 49

Liquid mixing

power consumption and mixing times for liquid mixing in a ribbon mixer, 135

Liquids

novel experimental technique for measurement of mass transfer between liquids and gas bubbles in agitated vessels: application to highly viscous liquids, 41

rational description of trickle flow through packed beds Radial spreading of the liquid, 61

Magnesium hydroxide slurries

model for determining the steady state flux of inorganic microfiltration membranes, 11

Mass transfer

novel experimental technique for measurement of mass transfer between liquids and gas bubbles in agitated vessels: application to highly viscous liquids, 41

Microbial growth

modeling of microbial growth under dual limitations, B9

Microporous membranes

protein adsorption on microporous membranes for plasma separation and its effects on flux decay, B1

Mixed solvents

solubility of N_2O in alkanolamines and in mixed solvents, 81

Mixing times

power consumption and mixing times for liquid mixing in a ribbon mixer, 135

Molar volume

prediction of the molar volume at the normal boiling point, 167

Nitrogen

solubility of N_2O in alkanolamines and in mixed solvents, 31

Non-isothermal water-gas shift reactor

development and verification of a simulation model for a non-isothermal water gas shift reactor, 17

Non-linear equilibrium analysis

non-linear equilibrium analysis of blowdown policy in pressure-swing-absorption separation, 173

Normal boiling point

prediction of the molar volume at the normal boiling point, 167

Oxygen

solubility of N₂O in alkanolamines and in mixed solvents,

Packed beds

rational description of trickle flow through packed beds Liquid distribution far from the distributor, 49 rational description of trickle flow through packed beds Radial spreading of the liquid, 61

Plasma separation

protein adsorption on microporous membranes for plasma separation and its effects on flux decay, B1

Polyisobutylene-decalin solution

horizontal stretching of test liquid A1, 129

Power consumption

power consumption and mixing times for liquid mixing in a ribbon mixer, 135

Pressure drop

effect of surface tension on flow pattern, holdup and pressure drop during horizontal air-water pipe flow at atmospheric conditions, 197

transport phenomena in bubble column reactors pressure drop, 153

Pressure-swing-absorption cycles

non-linear equilibrium analysis of blowdown policy in pressure–swing–absorption separation, 173

Protein adsorption

protein adsorption on microporous membranes for plasma separation and its effects on flux decay, B1

Pure liquids

rapid estimation method for thermal conductivity of pure liquids, 211

Radial spreading

rational description of trickle flow through packed beds Radial spreading of the liquid, 61

Residence time distribution

residence time distribution from a continuous Couette flow device, 101

Ribbon mixer

power consumption and mixing times for liquid mixing in a ribbon mixer, 135

Solid phase

cyclone reactor

measure of the efficiency of heat transfer between walls in gas and solid phases, 83

Solubility

solubility of N_2O in alkanolamines and in mixed solvents, 31

Steady state flux

model for determining the steady state flux of inorganic microfiltration membranes, 11

Surface tension

effect of surface tension on flow pattern, holdup and pressure drop during horizontal air—water pipe flow at atmospheric conditions, 197

Tetrahydrate sodium perborate

determination of the kinetics of growth and dissolution of tetrahydrate sodium perborate in a fluidized bed, 119

Thermal conductivity

rapid estimation method for thermal conductivity of pure liquids, 211

Transport phenomena

transport phenomena in bubble column reactors flow pattern, 141

transport phenomena in bubble column reactors pressure drop, 153

Trickle flow

rational description of trickle flow through packed beds Liquid distribution far from the distributor, 49 rational description of trickle flow through packed beds

Radial spreading of the liquid, 61 Tubular reactors

influence of the gel effect and backmixing on the dynamics and rate parameters of bulk copolymerization in a tubular reactor — theoretical analysis, 71

Unary Wilson model

group unary Wilson model for liquid mixtures without arbitrary parameters, 183

Vapor-liquid equilibria

semi-empirical equation of state applied to vapor-liquid equilibria calculations, 111

Viscous liquids

novel experimental technique for measurement of mass transfer between liquids and gas bubbles in agitated vessels: application to highly viscous liquids, 41

